Pioneer

Service Manual

ORDER NO. TRT1124

AMPLIFIED BANDPASS SUBWOOFER

TS-WX205A

EW

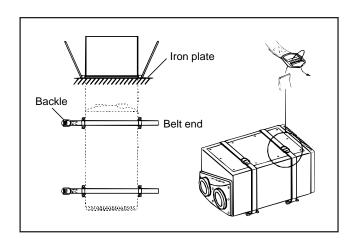
1. SPECIFICATIONS

. C1
• Speaker specifications
Size
High compliance, rolled edge
Heat-resistant voice coil
Strontium magnet: 500g (18oz)
• Amplifier
Max. Power output 100W (65Hz, 22% THD)
DIN output power (DIN45324, 65Hz, 1.8Ω+B=14.4V) 70W
INPUT LEVEL (at Gain Max)
$(RCA) \dots 100 mV + 100 mV / 20 k\Omega$
(Speaker line)
Power source
Max. current consumption
Grounding
• Speaker system Bandpass type
• Cabinet material
• Sensitivity
• Size
474mm(18-5/8")(W)×280mm(11")(D)×248mm(9-3/4")(H)
• Weight (including accessory parts) 10.1kg (22lb 4oz)
• Gross weight (including packaging)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

2. HOW TO INSTALL



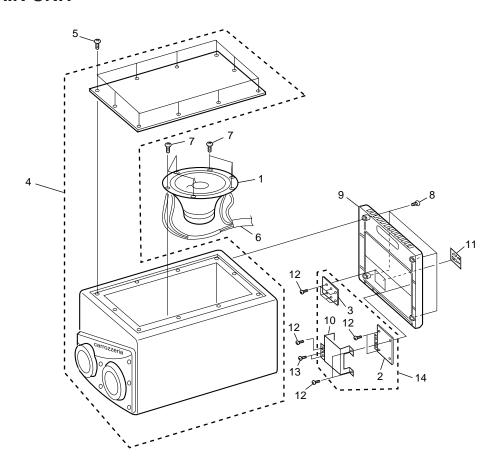
3. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ∆ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

 Screws adjacent to ▼ mark on the product are used for disassembly.

3.1 MAIN UNIT



• MAIN UNIT PARTS LIST

Mark	No.	Description	Part No.	Remark	Mark	No.	Description	Part No.	Remark
	1	Woofer	20-211AZ	×1		8	Screw	BNC40P300FNI	×4
NSP	2	AMP UNIT	TWK1010	×1		9	Heat Sink	TNA1515	×1
NSP	3	SWITCH UNIT	TWS1028	×1		10	Shield Plate	TNA1517	×1
	4	Cabinet Assy	TXC1145	×1		11	Terminal Panel	TNS1018	×1
	5	Screw	TBA1121	×10		12	Screw	BBZ30P080FMC	×11
	6	Cord	TDC2260	×1		13	Screw	PBB30P140FMC	×2
	7	Screw	BNC40P200FMC	×6		14	PCB Unit	TWX1025-AZ	×1

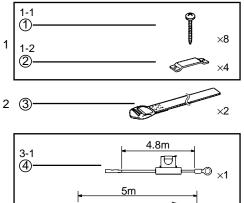
3.2 PACKING PARTS LIST

Mark	No.	Description	Part No.	Remark
NSP	1	Parts Bag 1-1 Screw 1-2 Fitting Metal	TEA1272 BNC40P250FZK TNA1220	×1 ×8 ×4
	2	Belt Assy	TXH1420	×2
	3	Cord Poly. Assy 3-1 Cord 3-2 Cord 3-3 Cord	TXH1558 TDC2259 TDC2244 TDC2245	×1 ×1 ×1 ×1
		Operating Instructions Styrofoam Protector Mount Packing Case	TRD1139 TEC1906 THC1614 THF3280	×1 One pair ×1 ×1

PARTS INCLUDED

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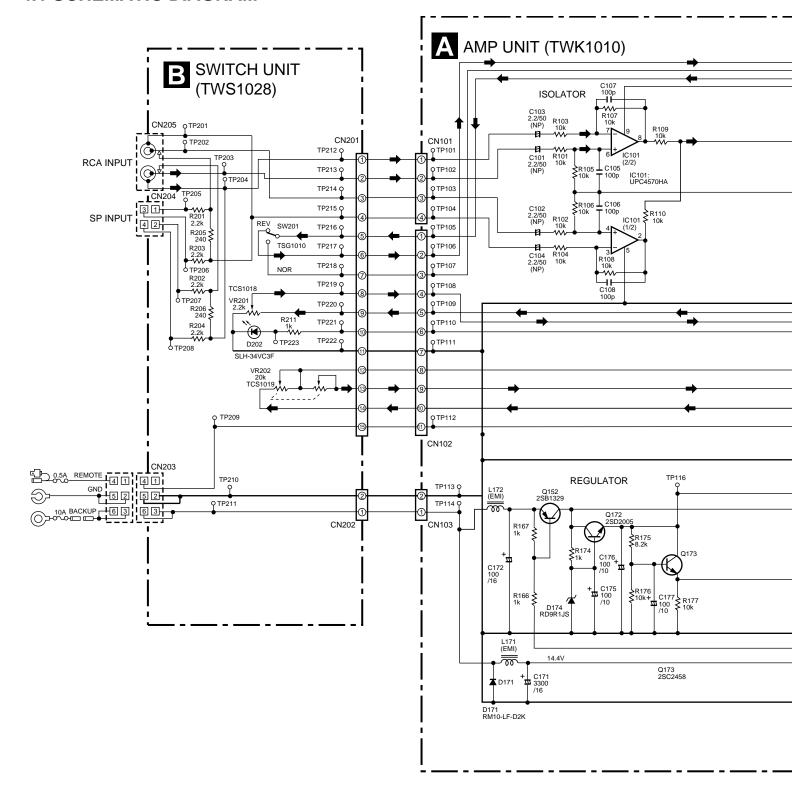
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TS-WX205A

4. PCB UNIT(TWX1025-AZ)

4.1 SCHEMATIC DIAGRAM



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AB

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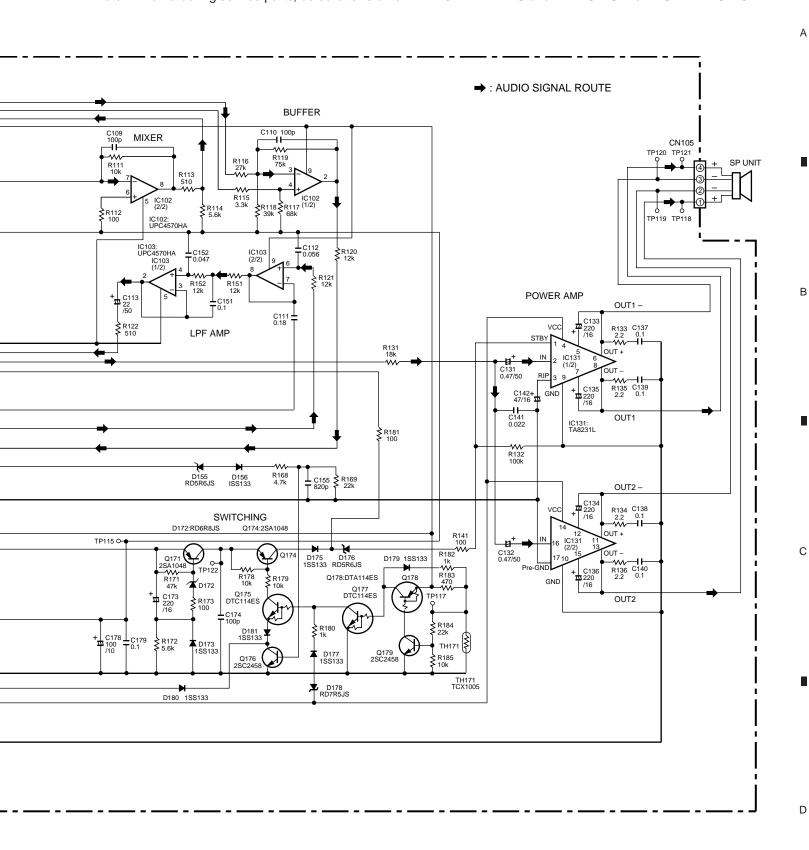
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Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

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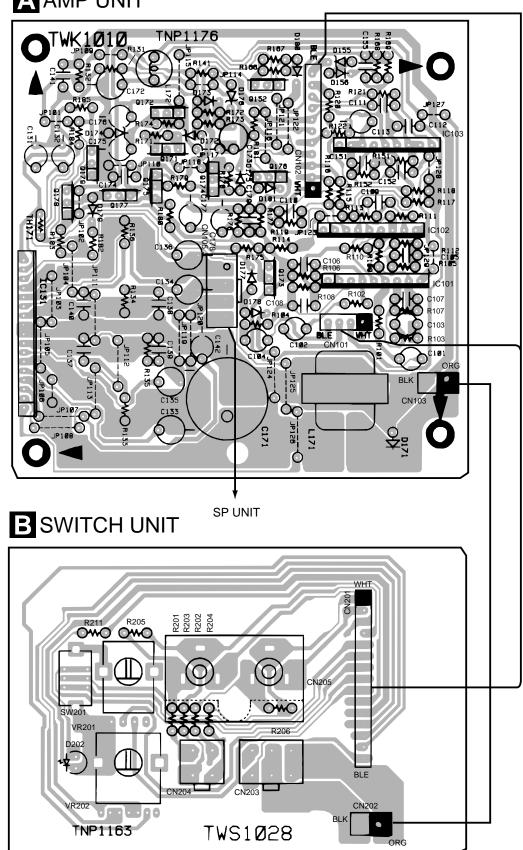
4.2 PCB CONNECTION DIAGRAM

A AMP UNIT

Q152 Q172 IC103 Q171 Q179 Q174 Q175 Q176 Q177 Q178

Q173 IC101

IC131



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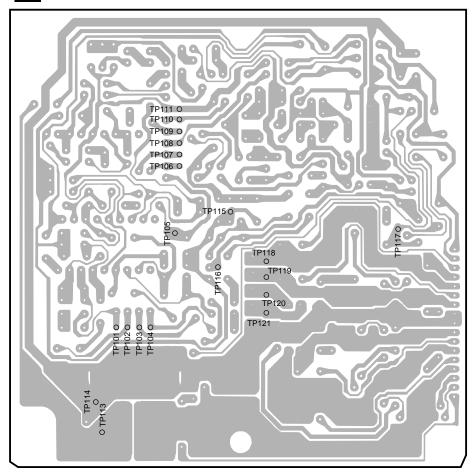
[•] This diagram is viewed from the mounted parts side.

TS-WX205A

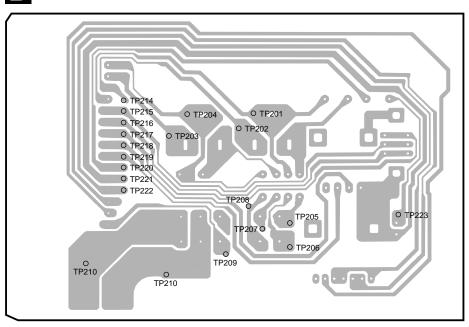
A AMP UNIT

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B SWITCH UNIT



• This diagram is viewed from the foil side.

AB

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5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

CEAS470M16

CEASR47M50

CFTNA104J50

CFTNA184J50

CFTNA473J50

CFTNA563J50

CFTNA223J50

CKCYB101K50 CKCYB821K50

CEJANP2R2M50

Mark N	o. Description	Part No.	Mark	No.	Description	Part No.	
LIST O		RESISTORS					
	CB UNIT — AMP UNIT — SWITCH UNIT	TWX1025-AZ TWK1010 TWS1028	All Resistors OTHERS			RD1/4PU□□□J	
	CWITCH CIWI	1001020			THERMISTER CORD CORD	TCX1005 TDC2253 TDC2254	
AAN	IP UNIT			CN105	CONNECTOR	TKS1079	
SEMICO	NDUCTORS						
IC Q Q	C101-IC103 C131 .171,Q174 .152 .172	UPC4570HA TA8231L 2SA1048 2SB1239 2SD2005		SWIT (CONDU D202	CH UNIT JCTOR	SLH-34VC3F	
Q	:173,Q176,Q179 :178 :175,Q177	2SC2458 DTA114ES DTC114ES	SWIT	CH SW201		TSG1010	
D	175,Q177 156,D173,D175 177,D179-D181	1SS133 1SS133	RESIS	STORS			
D D	155,D176 172 178 174	RD5R6JS RD6R8JS RD7R5JS RD9R1JS		VR202	$(2.2k\Omega)$ $(20k\Omega)$ Resistors	TCS1018 TCS1019 RD1/4PU□□□J	
_	171	RM10-LF-D2K	OTHE	RS			
	171 172	TTH1075 TTH1079		CN204 CN205 LED SF	_	TKS1062 TKS1063 TKS1061 MNK1123	
	112	11111079		SCREV	V	BPZ26P060FZK	
CAPACI	ITORS						
C C C	171 (3300µ/16V) 133-C136,C173 (220µ/16V) 175-C178 172 113	TCH1218 TCH1219 CEAS101M10 CEAS101M16 CEAS220M50					

C142 C131,C132

C111

C152

C112

C141

C155

C101-C104

C137-C140,C151,C179

C105-C110,C174

5. CONNECTIONS

